

## ABSTRACT OF THE DISCLOSURE

The invention discloses a method for providing guaranteed Quality of Services (QoS) in an IP network. In the invention, separated with the function of route selection for IP packets in IP bearer network, the same function for services with guaranteed QoS requirements is accomplished by bearer network resource managers in bearer control layer. After completing the route selection according to network resource occupation condition, the bearer network resource managers control the edge routers so that the traffic streams can be forwarded according to the path designated by the resource manager in the bearer network with multi-level label stack technology. The invention also discloses a system for providing guaranteed QoS in an IP network. The method and system according to the invention have good expansibility and little impact to the prior network.